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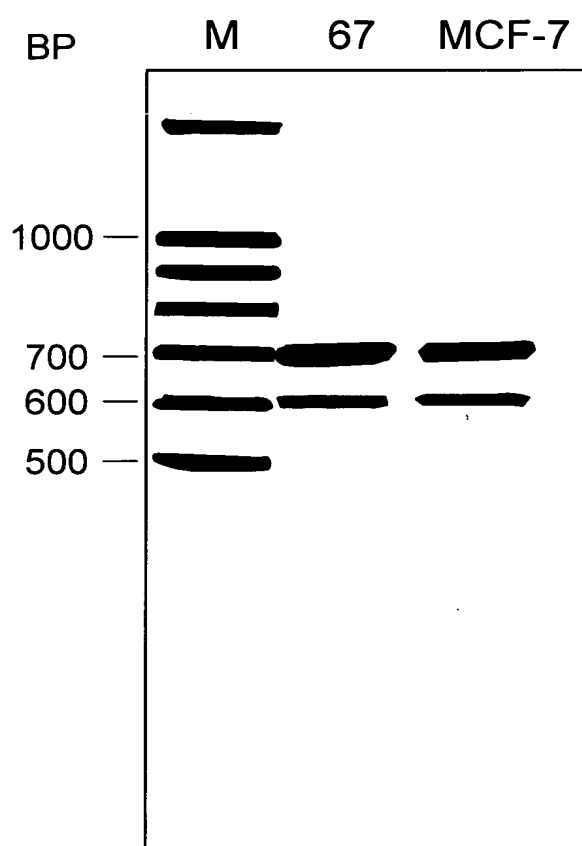


FIG. 1

FOO220" 690E2860

1 ATGCAGTGGCCGCTGGGCCGGCGGTGGCGCTGGGCCGCGCTGCTCCTGGCTGTCGCAGCG 60  
M Q W A V G R W A W A A L L A V A A  
61 GTGCTGACCCAGGTCGTCTGGCTCTGGCTGGGTACGCAGAGCTTCGTCTCCAGCGCGAA 120  
V L T Q V V W L W L G T Q S F V F Q R E  
121 GAGATAGCGCAGTTGGCGCGCAGTACGTGGGTGGACCACGAGCTGGCCCTTCTCTCGT 180  
E I A Q L A R Q Y A G L D H E L A F S R  
181 CTGATCGTGGAGCTGCGCGCGGCTGCACCCAGGCCACGTGTGCCCGCAGGAGCTGCAG 240  
L I V E L R R L H P G H V L P D E E L Q  
241 TGGGTGTTCTGTAATGCGGGTGGGTGGATGGCGGCCATGTGCCCTTCTGCACGCCCTCGCTG 300  
W V F V N A G G W M G A M C L L H A S L  
301 TCCGAGTATGTGCTCTTTCGGCACCGCCCTTGGGCTCCCGCGGCCACTCGGGGGAGACG 360  
S E Y V L L F G T A L G S R G H S G E T  
361 GTAGTACACGGGCCCTGGTGAGGCAACAGCTGTGGAGTGGGGGCCCAACACATGGATGGTG 420  
V V H G P G E A T A V E W G P N T W M V  
421 GAGTACGGCCGGCGTCATCCCATCCACCTGCGCCTTCGCGCTGGCCGACACTGTCTTC 480  
E Y G R G V I P S T L A F A L A D T V F  
481 AGCACCAGGACTTCCTCACCCCTCTTCTATACTCTTCGCTCCTATGCTCGGGCCCTCCGG 540  
S T Q D F L T L F Y T L R S Y A R G L R  
541 CTTGAGCTCACCACTACCTCTTTGGCCAGGACCCCTGA 579  
L E L T T Y L F G Q D P \*

FIG. 2

1	MQWAVGRRWAWAALLLAVAAVL	TQVWVLWLG	TQSFVFQREEIAQLARQYA	50
1	MQWAVGRRWAWAALLLAVAAVL	TQVWVLWLG	TQSFVFQREEIAQLARQYA	50
51	GLDHELAFSRLIVELRRLHPGHVLP	DEELQWVFVNAGWMG	<u>AMCLLHASL</u>	100
51	GLDHELAFSRLIVELRRLHPGHVLP	DEELQWVFVNAGWMG	<u>AMCLLHASL</u>	100
101	<u>SEYVLLFGTALGSRGHS</u>	GRYWAEISDTII	SGTFHQWREGTTKSEVFYPGE	150
101	<u>SEYVLLFGTALGSRGHS</u>	(117)	[31 AA WERE DELETED] GE	119
151	TVVHGPGEATAVEWGPNTWMVEYGRGVIP	STLAFALADTVFSTQD	FLTLF	200
120	TVVHGPGEATAVEWGPNTWMVEYGRGVIP	STLAFALADTVFSTQD	FLTLF	169
201	YTLRSYARGRLRLT	TYLFGQDP	223 AA HUMAN $\sigma_1$ RECEPTOR PROTEIN	
170	YTLRSYARGRLRLT	TYLFGQDP	192 AA HUMAN $\sigma_{1\beta}$ RECEPTOR PROTEIN	

FIG. 3

FOO22D" 69DE2860

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1  ATCCCGTGGCCGCGGACGGCGGTGGCAATGGATCACCTGATTCGACTATTATCGCA  60
   M P W A A G R R W A W I T L I L T I I A

61  GTGCTGATCCAGCCGCTGTTGTGGTGGCACTCAAAACTTCGTCTCTAGAGAA  120
   V L I Q A A W L W L G T Q N F V F S R E

121  GAAATAGCGCAGCTTGCTCGACAGTATGCGGGGCTGGACCATGAGCTTGCCTTCTCTCGG  180
   E I A Q L A R Q Y A G L D H E L A F S R

181  CTGATCGTGGAGCTGCGGAGGCTGCACCCAGCCACGTGCTGCCGATGAGGAGCTGCAG  240
   L I V E L R R L H P G H V L P D E E L Q

241  TGGGTATTTGTGAACGCGGGGCTGGATGGCGGCCATGTGTATTCTGCACGCCCTCGCTG  300
   W V F V N A G G W M G A M C I L H A S L

301  TCTGAGTACGTGCTCTTCGGCACCGCCCTGGGCTCCCATGGCCATTCCGGGAGAGACA  360
   S E Y V L L F G T A L G S H G H S G E T

361  GTTGACACGGCCCTGGAGAAGCAACGGCTCTGGAGTGGGACCAACACGTGGATGGTG  420
   V V H G P G E A T A L E W G P N T W M V

421  GAGTACGGCCGGGTGTTATTCGGTCTACCCCTGTTCTTTGCACTAGCCGACACCTTCTTC  480
   E Y G R G V I P S T L F F A L A D T F F

481  GGCACCCAGGACTACCTCACACTCTTCTATACCCCTTCGGGCCCTATGCCGGGCCCTCCGG  540
   G T Q D Y L T L F Y T L R A Y A R G L R

541  CTTGAGCTTACCACCTACCTCTTTGGCCAAGACTCCTGA  579
   L E L T T Y L F G Q D S *

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FIG. 4

1 MPWAAGRRWAWITLILTIIAVLIQAAWLWLGTQNFVFSREEIAQLARQYA 50  
 1 MPWAAGRRWAWITLILTIIAVLIQAAWLWLGTQNFVFSREEIAQLARQYA 50  
  
 51 GLDHELAFSRLIVELRRLHPGHVLPDEELQWVFNAGGWMGAMCILHASL 100  
 51 GLDHELAFSRLIVELRRLHPGHVLPDEELQWVFNAGGWMGAMCILHASL 100  
  
 101 SEYVLLFGTALGSHGHSGRYWAEISDTIISGTFHQWKEGTTKSEVFYPGE 150  
 101 SEYVLLFGTALGSHGHS (117) [31 AA WERE DELETED] GE 119  
  
 151 TVVHGPGEATALEWGPNTWMVEYGRGVIPSTLFFALADTFFGTQDYTLTF 200  
 120 TVVHGPGEATALEWGPNTWMVEYGRGVIPSTLFFALADTFFGTQDYTLTF 169  
  
 201 YTLRAYARGRLRLTTLTYLFGQDS\* 223 AA  $\sigma_1$  RECEPTOR PROTEIN  
 170 YTLRAYARGRLRLTTLTYLFGQDS\* 192 AA  $\sigma_{1\beta}$  RECEPTOR PROTEIN

FIG. 5

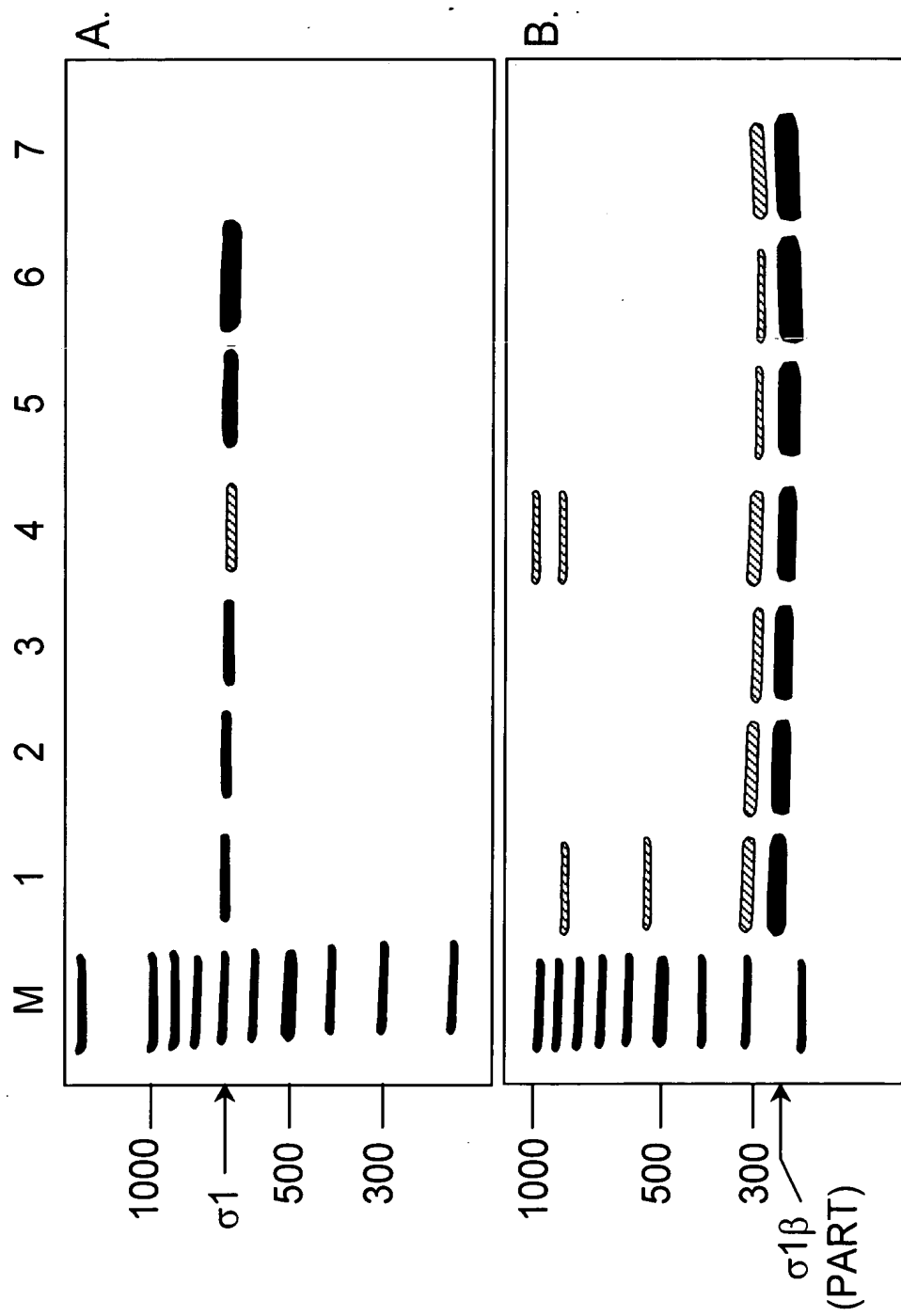


FIG. 6

# SIGMA-1 RECEPTOR GENE

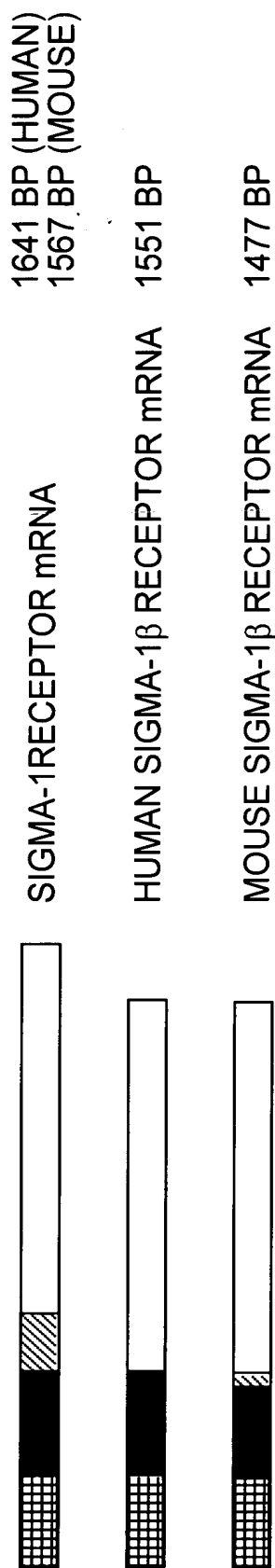
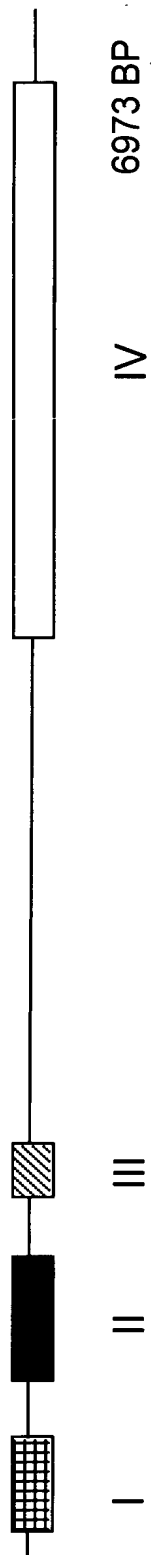


FIG. 7